PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2018-02-12-09**	**Date: 15-02-2018**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.	
Address	:	Dasarahalli Sub division, BBMP, Bangalore.	
Project Name	:	Improvements to roads and drains at 2nd main and 7th cross Manjunatha Nagara in Ward no.14 Bagalagunte.	
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.	
Customer Reference	:	BBMP/EE//DD/WO/81/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	12-02-2018	
Sample ID No	:	2018-02-12-09/01	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	12-02-2018	

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	11.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	12.4		
Strength	Aggregate Impact Value	23.6	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.64	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.23	Maximum 2%	IS:2386 Part III

Note:

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-02-01-01** **Date: 03-02-2018**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.
Address	:	Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 2nd main and 7th cross Manjunatha Nagara in Ward no.14 Bagalagunte.
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer Reference	:	BBMP/EE//DD/WO/81/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-02-2018
Sample ID No	:	2018-02-01-01/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	01-02-2018

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.5%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.6%	
Combined Flakiness and Elongation Index for WMM	23.1%	

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Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-02-01-01**	**Date: 03-02-2018**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.	
Address	:	Dasarahalli Sub division, BBMP, Bangalore.	
Project Name	:	Improvements to roads and drains at 2nd main and 7th cross Manjunatha Nagara in Ward no.14 Bagalagunte.	
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.	
Customer Reference	:	BBMP/EE//DD/WO/81/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	01-02-2018	
Sample ID No	:	2018-02-01-01/01	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	01-02-2018	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	312.5	313.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	75.9	76.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	236.2	236.6
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.5
5	Aggregate impact value	(B/A)*100	24.3	24.3
6	Aggregate impact value (Mean of two tests)	Pecentage	24.3	

Note:-

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-02-01-01**	**Date: 03-02-2018**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.	
Address	:	Dasarahalli Sub division, BBMP, Bangalore.	
Project Name	:	Improvements to roads and drains at 2nd main and 7th cross Manjunatha Nagara in Ward no.14 Bagalagunte.	
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.	
Customer Reference	:	BBMP/EE//DD/WO/81/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	01-02-2018	
Sample ID No	:	2018-02-01-01/01	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	01-02-2018	
Oven Dry Weight	:	11000	Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	298	298	2.7	97.3	95-100
22.4	2315	2613	23.8	76.2	60-80
11.2	2213	4826	43.9	56.1	40-60
4.75	2154	6980	63.5	36.5	25-40
2.36	1648	8628	78.4	21.6	15-30
0.6	723	9351	85.0	15.0	8-22
0.075	1338	10689	97.2	2.8	0-5

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-01-10-08** **Date: 13-01-2018**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.
Address	:	Dasarahalli Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 2nd main and 7th cross Manjunatha Nagara in Ward no.14 Bagalagunte.
Agency	:	Technical Manager West, KRIDL, Project Implementation Unit, No.280, 59th cross, 17th 'C' main road, 3rd 'Y' Block, Rajajinagar, Bangalore-560010.
Customer Reference	:	BBMP/EE//DD/WO/81/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-01-2018
Sample ID No	:	2018-01-10-08/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	10-01-2018
Oven Dry Weight	:	10200 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100.0	100
53	966	966	9.47	90.5	80-100
26.5	1254	2220	21.76	78.2	55-90
9.5	1828	4048	39.69	60.3	35-65
4.75	1590	5638	55.27	44.7	25-55
2.36	1764	7402	72.57	27.4	20-40
0.425	1633	9035	88.58	11.4	10-25
0.075	896	9931	97.36	2.6	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	22.00%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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